

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	2	JP-2001155677-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/10 09:33
L34	5	("3540851"   "3589869"   "4261698").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/10 10:01
L41	14833	(vacuum near2 chamber near2 "within" near2 vacuum near2 chamber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/10 10:35
L42	255	(vacuum near2 chamber near2 "within" near2 vacuum near2 chamber) same (mass near2 (spectrometer analyzer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/10 10:36
L43	9	42 and (porous membrane) with (vacuum near2 chamber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/10 10:36

L44	10	(vacuum near2 chamber near2 "within" near2 vacuum near2 hous\$4) same (mass near2 (spectrometer analyzer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/10 10:39
S1	13	((FINLAY near2 ALAN).inv.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 11:23
S2	11	((("6025591") or ("6525314") or ("5536939") or ("5386115") or ("5313061") or ("3458699") or ("3638401") or ("5019139") or ("5313061") or ("5536939") or ("5994696") or ("7367216") or ("20080128605"))).PN.	US-PGPUB; USPAT	OR	OFF	2009/10/07 12:02
S3	8382	(250/281,282,288,289,423R,428,430).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/07 12:14
S4	31	S3 and (mass near2 spectromet\$4) and (valve with (break\$4 or rupturable))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 12:15
S5	11	((mass near2 spectromet\$4) with (vacuum)) and (glass with (break\$4 or rupturable) with vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 12:24

S6	11	("3458699").URPN.	USPAT	OR	ON	2009/10/07 12:53
S7	0	((mass near2 spectromet\$4)) and (sample with suppl \$4 with (break\$4 or rupturable) with vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 12:59
S8	74	((mass near2 spectromet\$4)) and (sample with (break \$4 or rupturable) with vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 12:59
S9	36	S8 and membrane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 12:59
S10	4	S8 and membrane with glass	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:00
S11	32	S9 not S10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:00

S12	20	((mass near2 spectromet\$4)) and (glass with (break\$4 or rupturable) with vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:03
S13	9	S12 not S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:03
S14	25	((mass near2 spectromet\$4)) and (seal with (break\$4 or rupturable) with vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:04
S15	17	S14 not S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:05
S16	5685	((Polydimethylsiloxane or silicone or membrane) same (supply or source)) and (mass adj spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:12
S17	858	S16 and ((Polydimethylsiloxane or silicone or membrane) same vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:12

S18	140	S16 and ((Polydimethylsiloxane or silicone or membrane) with (source or supply) with ((mass adj spectromet\$4) or analy\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:13
S19	4	S18 and (break\$4 or brok\$4 or ruptur\$4) with (glass or actuat\$4 or driv\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:14
S20	4	S18 and (break\$4 or brok\$4 or ruptur\$4) with (glass or actuat\$4 or driv\$4 or vibrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 13:14
S21	378	(mass near2 spectromet\$4) and (((high adj vacuum) or (low adj pressure)) same (sample with (entrance or enter or introduct\$4 or suppl\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 06:41
S22	1407	(mass near2 spectromet\$4) and (((high adj vacuum) or (low adj pressure)) same ((sample or gas) with (entrance or enter or introduct\$4 or port or valve seal suppl\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 06:42
S23	160	S22 and (((high adj vacuum) or (low adj pressure)) with seal\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 06:43

S24	14	S23 and (seal\$4 with glass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 06:43
S25	5323	(mass near2 spectromet\$4) and (((high adj vacuum) or (low adj pressure)) and ((sample or gas) with (entrance or enter or introduct\$4 or port or valve seal suppl\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 06:58
S26	59	S25 and (sample or gas) with break\$4 with vacuum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 06:59
S27	2	S26 and (actuat\$4 or driv\$4 or auto?matic or automatic) with break\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:00
S28	102	S25 and (sample or gas) same (break\$4 with vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:01
S29	30	S28 and ((entrance or enter or introduct\$4 or port or valve seal suppl\$4) with break\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:01

S30	61	S25 and (break\$4 near4 glass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:18
S31	3	S30 and ((breaking with glass with (entrance or enter or introduct\$4 or port or valve seal suppl\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:19
S32	0	(mass near2 (spectrometer analyzer)) same (membrane poro\$5) same ((breaking with glass with (entrance or enter or introduct\$4 or port or valve seal suppl\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:21
S33	1	(mass near2 (spectrometer analyzer)) same ((breaking with glass with (entrance or enter or introduct\$4 or port or valve seal suppl\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:21
S34	24	(mass near2 (spectrometer analyzer)) same ((breaking with (entrance or enter or introduct\$4 or port or valve seal suppl\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:21
S35	5	S34 and (glass with seal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:22

S36	19	S34 not S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 07:22
S37	452	(mass near2 spectromet\$4) with ((high adj vacuum) or (low adj pressure)) with (hous\$4 chamber enclosure cavity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 08:35
S38	23	S37 and (porous\$4 membrane) with (hous\$4 chamber enclosure cavity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 08:36
S39	3	S38 and (valve with sample)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 08:38
S40	3492	(mass near2 spectromet\$4) and (valve with sample)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 08:46
S41	998	S40 and (porous\$4 membrane) same sample	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 09:00



S42	374	S40 and (porous\$4 membrane) same sample same valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 09:00
S43	39	S42 and mems	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 09:00
S44	128	(mass near2 spectromet\$4) and (membrane with across with chamber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:00
S45	38	S44 and (valve with sample)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:01
S46	7740	(mass near2 (analy\$4 or spectromet\$4)) and ((switch valve) with (entrance or enter or introduct\$4 or port or valve seal suppl\$4) with (gas sample))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:19
S47	1986	S46 and (vacuum with (entrance or enter or introduct\$4 or port or valve seal suppl\$4) with (gas sample))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:20

S48	107	S47 and ((membrane or porous\$4) with (entrance or enter or introduct\$4 or port or valve seal suppl\$4) with (gas sample))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:20
S49	2	S48 and ((break\$4) with (entrance or enter or introduct\$4 or port or valve seal suppl\$4) with (gas sample))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:21
S50	42	S48 and (mass near2 (spectrometer analyzer)) same (membrane porous\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:22
S51	1	S50 and (vacuum near4 (broken or break\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:23
S52	9	("3638401").URPN.	USPAT	OR	ON	2009/10/08 10:39
S53	150	(control\$4 with sample with introduct\$4) same (mass near2 (analy\$4 or spectromet\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:50

S54	19	S53 and (membrane with (sample or gas))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:51
S55	52	S46 and (pressure near2 differential\$4) with membrane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:56
S56	30	S55 and sample with membrane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 10:56
S57	22	S55 not S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 11:00
S58	36	(valve with (sample gas) with membrane) same (mass near2 (analy\$4 or spectromet\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 11:18
S59	2	JP-2001155677-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 12:32

S60	47	(membrane near2 inlet near2 mass near2 spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 12:35
S61	0	S60 and (vacuum near4 (broken or break\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 12:35
S62	5	S60 and (vacuum with valve)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 12:35
S63	25	S60 and (vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 12:41
S64	8	S46 and (membrane near2 inlet near2 mass near2 spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 12:54
S65	0	((brok\$4 or break\$4) with (glass window) with (sample gas)) same (membrane) same ((analy\$4 or spectromet\$4) near2 mass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:05

S66	2	((brok\$4 or break\$4) with (glass window seal) with (sample gas)) same (membrane) same ((analy\$4 or spectromet\$4) near2 mass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:05
S67	1	((brok\$4 or break\$4) with (glass window seal) with membrane) same ((analy\$4 or spectromet\$4) near2 mass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:06
S68	0	((brok\$4 or break\$4) with (glass window seal) with vacuum) same (membrane) same ((analy\$4 or spectromet\$4) near2 mass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:06
S69	3	((brok\$4 or break\$4) with (glass window seal) with vacuum) and (membrane same ((analy\$4 or spectromet\$4) near2 mass))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:07
S70	1855	(250/281,282,288,289,423R,428,430).CCLS.	US-PGPUB	OR	OFF	2009/10/08 13:19
S71	49	S70 and (mass near2 (analy\$4 or spectromet\$4)) and ((switch valve) with (entrance or enter or introduct\$4 inlet or port or valve seal suppl\$4) with (gas sample)) and membrane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:20

S72	37	S71 and (gas sample) with membrane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:20
S73	16	S71 and (pressure) with membrane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:21
S74	8288	(membrane with (pressure near2 different\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:24
S75	63	S74 and (mass near2 (analy\$4 or spectromet\$4)) and ((switch valve seal\$4) with (entrance or enter or introduct\$4 inlet or port or valve suppl\$4) with (gas sample))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:25
S76	52	S75 and (membrane with (seal\$4 valve switch))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:26
S77	19	S75 and (spectromet\$4 or analy\$4) with vacuum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:26

S78	17	S76 and S77	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:27
S79	2	S77 not S78	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:30
S80	35	S76 not S77	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 13:30
S81	1	("4201913").PN.	US-PGPUB; USPAT	OR	OFF	2009/10/08 15:58
S82	35	(gas with sample with introduc\$5) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:20
S83	12	S82 and membrane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:21

S84	1	((membrane with (sample or gas)) same ((suppl\$4 or introduc\$5) with (sample or gas) with (valve seal\$4 glass))) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:24
S85	8	((membrane with (sample or gas)) and ((suppl\$4 or introduc\$5) with (sample or gas) with (valve seal\$4 glass))) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:25
S86	111	(membrane with (sample or gas)) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:27
S87	44	((suppl\$4 or introduc\$5) with (sample or gas) with (valve seal\$4 glass)) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:28
S88	10	S87 and membrane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:28
S89	1	((((sample or gas) with (valve seal\$4 glass)) same (pressure with membrane)) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:30



S90	4	((sample or gas) with (pressure with membrane)) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:31
S91	111	((sample or gas) with (membrane)) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:32
S92	49	S91 and ((block\$4 or shield\$4 or intercept\$4 or break\$4 or obstruct\$5 or hinder\$4 stop\$4 or barrier close) with (sample or gas))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:34
S93	48	S92 and (slot channel or tub\$4 or pip\$4 or passag\$4 or path?way or pathway or entrance or passage?way or communica\$4 or interfac\$4 or orifice or open\$3 or inlet or entry or entry?way or outlet or exit or exit? way or diaphragm or sleeve or aperture or hole or cell or tunnel\$4 or conduit) with (sample or gas)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:36
S94	17	("3801788"   "3895231"   "3992626"   "4023398"). PN. OR ("4201913").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 07:47
S95	200	(membrane with (pressure near2 different\$4)) and (mass near2 spectomet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:51

S96	115	S95 and glass	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:52
S97	15	S95 and glass with seal\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:52
S98	2	S86 and S95	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:55
S99	144	S95 and (membrane with (gas\$4 or sample))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:58
S100	31	S95 and (membrane with (mass near2 (spectromet\$4 or anayl\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:58
S101	30	S99 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 07:59

S102	9	("3638401").URPN.	USPAT	OR	ON	2009/10/09 08:11
S103	64	S95 and membrane.ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:18
S104	10	S103 and (mass near2 spectromet\$4).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:18
S105	8	("3751880").URPN.	USPAT	OR	ON	2009/10/09 08:21
S106	208	(membrane with (sample or gas) with (mass near2 (spectromet\$4 analy\$4)))	USPAT	OR	ON	2009/10/09 08:22
S107	81	S106 and (membrane with pressure)	USPAT	OR	ON	2009/10/09 08:23
S108	78	S107 and ((sample or gas) same pressure)	USPAT	OR	ON	2009/10/09 08:23
S109	464	(membrane with (sample or gas) with (mass near2 (spectromet\$4 analy\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:23
S110	81	S109 and (membrane with pressure)	USPAT	OR	ON	2009/10/09 08:24
S111	78	S110 and ((sample or gas) same pressure)	USPAT	OR	ON	2009/10/09 08:24

S112	150	S109 and (membrane with pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:24
S113	78	S110 and ((sample or gas) same pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:24
S114	138	S112 and ((sample or gas) same pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:24
S115	24	S114 and ((pressure or vacuum) with (seal plug))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:25
S116	12	S112 not S114	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:58
S117	107	S86 not S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 08:59

S118	2	JP-2002357593-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 09:09
S119	17	(membrane near2 across near2 chamber) with (analy\$4 or spectrometer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 09:13
S120	2	(membrane near2 locat\$4 near2 chamber) with (analy\$4 or spectrometer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 09:16
S121	69	(membrane with chamber) with (spectrometer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 09:16
S122	6787	(250/281-300).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/10/09 09:17
S123	18	S121 and S122	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 09:17

S124	3	US-4551624-\$.DID. OR US-5763876-\$.DID. OR US-6627878-\$.DID.	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 09:24
S125	1	("5723861").PN.	US-PGPUB; USPAT	OR	OFF	2009/10/09 09:25
S126	70	("3668382"   "4317995"   "5420424").PN. OR ("5723861").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 09:25
S127	67	("5723861").URPN.	USPAT	OR	ON	2009/10/09 09:25
S128	7	S86 and S126	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 09:26
S129	1	("7511268").PN.	US-PGPUB; USPAT	OR	OFF	2009/10/09 09:26
S130	17	("20020016004"   "20030036272"   "20050085740"   "20050139762"   "20060102844"   "20060249673"   "3699333"   "4311669"   "4777363"   "5109691"   "5420424"   "5723861"   "5736739"   "5811059"   "5968837"   "6803567"   "7211791").PN. OR ("7511268").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 09:27
S131	9	("5703359").URPN.	USPAT	OR	ON	2009/10/09 10:04
S132	171	(sample with (introduc\$4 supply inlet) with membrane) and (mass near2 spectromet\$4)	USPAT	OR	ON	2009/10/09 10:08
S133	50	(sample with (introduc\$4 supply inlet) with membrane) and (mass near2 spectromet\$4).ab.	USPAT	OR	ON	2009/10/09 10:08

S134	17	("20020053636"   "20020125425"   "20060219898"   "4388531"   "4755685"   "4849628"   "5313061"   "5818055"   "5837883"   "5844237"   "5896196"   "6239429"   "6329654"   "6410914"   "6541768"   "6593568"   "6825466").PN. OR ("7427750").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 10:16
S135	5	("3723729").URPN.	USPAT	OR	ON	2009/10/09 10:33
S136	517	(sample with (introduc\$4 supply inlet) with (porous\$4 \$5permeabl\$4 membrane)) and (mass near2 spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:36
S137	197	S136 and ((pressure) with (porous\$4 \$5permeabl\$4 membrane))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:36
S138	114	S137 and (break or clos\$4 or open\$3) with (sample)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:39
S139	116	S137 and (break\$4 or brok\$4 or clos\$4 or open\$3) with (sample)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:39

S140	64	S139 and (break\$4 or brok\$4 or clos\$4 or open\$3) with (pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:39
S141	25	S140 and (spectrometer or analyzer) with (membrane or \$5permeable or porous\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:40
S142	11	(mass near2 spectrometer) and ((valve seal glass) with membrane with vacuum with (chamber hous\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:52
S143	37	(mass near2 spectrometer) and ((valve seal glass) with (membrane filter) with vacuum with (chamber hous\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:56
S144	26	S143 not S142	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 10:57
S145	57	membrane with ((ionization or ionisation) near3 (chamber volume))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 11:06



S146	22	S145 and (mass near2 spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 11:06
S147	89	membrane with ((analyzer or spectromet\$4) near3 (chamber volume))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 11:14
S148	52	S147 and (mass near2 spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 11:14
S149	29	S122 and S148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 11:15
S150	498	(control\$4 near3 (sample)) with (mass near2 (spectromet\$4 or analyzer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 11:52
S151	74	(control\$4 near3 (sample)) with (suppl\$4 or introduc\$4 inlet) with (mass near2 (spectromet\$4 or analyzer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:02

S152	3	S151 and (pressure with (porous\$4 \$5permeabl\$4 membrane))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:03
S153	13	S150 and (pressure with (porous\$4 \$5permeabl\$4 membrane))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:04
S154	4	("3801788"   "3895231"   "3992626"   "4023398"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 12:06
S155	14	("2829259"   "3080754"   "3413463").PN. OR ("3992626").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 12:09
S156	9	(control\$4 near3 (sample)) with (suppl\$4 or introduc \$4 inlet) with (pressure with (porous\$4 \$5permeabl\$4 membrane))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:12
S157	54	(control\$4 near3 (sample)) with (suppl\$4 or introduc \$4 inlet) and (pressure with (porous\$4 \$5permeabl\$4 membrane)) and (mass near2 (spectrometer analyzer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:13
S158	54	("5313061").URPN.	USPAT	OR	ON	2009/10/09 12:16

S159	103	("2916649"   "3084249"   "3230362"   "3291980"   "3594574"   "3659236"   "3699332"   "3700893"   "3939344"   "3946227"   "3984692"   "3992626"   "3996464"   "4008388"   "4016421"   "4037100"   "4160161"   "4209696"   "4213326"   "4256963"   "4266127"   "4296323"   "4315153"   "4411575"   "4442353"   "4459481"   "4459844"   "4472630"   "4472631"   "4480187"   "4514628"   "4517461"   "4536652"   "4560878"   "4652752"   "4686365"   "4694168"   "4723076"   "4746794"   "4812649"   "4842701"   "4851669"   "4866267"   "5012052"   "H000414").PN. OR ("5313061").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 12:16
S160	71	S122 and S159	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 12:16
S161	1	S157 and S160	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/09 12:17
S162	447	(sample with (suppl\$4 inlet introduc\$4 enter enteran \$4) with (porous\$4 \$5permeabl\$4 membrane)) and (mass near2 (spectrometer analyzer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:25
S163	180	((pressure or vacuum) with (porous\$4 \$5permeabl\$4 membrane)) and S162	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:26
S164	91	S163 and (pressure near2 differen\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:27

S165	55	S164 and (pressure vacuum) with (mass near2 (spectrometer analyzer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:28
S166	1	("2006/0060771").URPN.	USPAT	OR	ON	2009/10/09 12:30
S167	20	S162 and "MEMS"	USPAT	OR	ON	2009/10/09 12:32
S168	48	S162 and "MEMS"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:33
S169	14	S165 and "MEMS"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:33
S170	41	S165 not S169	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:36
S171	11	S162 and (break or broken) near3 glass	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:45

S172	2	"MEMS" and (mass near2 spectromet\$4) and (break or broken) near3 glass	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/09 12:48
S173	162	(mass near2 spectromet\$4) and (break or broken) near3 glass	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/09 12:48
S174	24	(sample with (suppl\$4 inlet introduc\$4 enter enteran \$4) and (porous\$4 \$5permeabl\$4 membrane)) and S173	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:49
S175	19	S174 not S171	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 12:49
S176	20	((rupturable break\$4) near2 (diaphram))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 13:11
S177	0	S176 and (mass near2 spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/09 13:12

S178	2591	((rupturable break\$4) near2 (diaphragm))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/09 13:12
S179	10	S178 and (mass near2 spectromet\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/09 13:13

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